

BIOLOGY MIDDLE/ SECONDARY EDUCATION, B.A.

Biology in the broadest sense is the study of life. It is a diverse subject and understanding it requires a background in all the sciences. Students synthesize that knowledge to understand the living world, a world that is both remarkably unified and wonderfully diverse. Students majoring in biological sciences complete a core curriculum in biology, chemistry, math and physics. A B.A. in Biology with Middle and Secondary Education offers students these same skills with a pathway to teach at the middle- or high-school level.

Contact Information

biology@css.edu

Learning Outcomes

Upon completion of a Biology Middle/Secondary Education degree, students will:

1. Practice critical reflection in the analysis and improvement of their teaching.
2. Demonstrate a sound foundation of content knowledge in the subject areas they teach.
3. Understand and implement best practices in their teaching.
4. Demonstrate the dispositions critical to effective teaching.
5. Practice responsive teaching that meets the diverse needs of all students in their classrooms.
6. Collaborate effectively with stakeholders (e.g. parents, K-12 administrators, community members) to enhance student learning.
7. Apply foundational scientific concepts to interpret biological phenomena (Critical Thinking).
8. Effectively communicate biological concepts and interpretations (Oral and Written Communication).
9. Use quantitative analysis to interpret biological data (Quantitative Analysis).

Requirements

Students must achieve the following program requirements for all courses listed under Program Requirements and Program Required Courses for the Biology Middle/Secondary Education major.

Program Requirements

Major Credits: 82-83

Major Residency Credits: 16

Minimum GPA: 2.8

Minimum Grade: C in EDU and BIO Courses

Minimum Grade: C- in Supporting Courses

Code	Title	Credits
Biology Content Core Courses		
BIO 1115	Global Problems, Scientific Solutions	4
BIO 1116	Novel Antimicrobial Discovery	2
BIO 1125	Foundations in Biology	4
BIO 2510	Human Anatomy and Physiology I	4
BIO 2520	Human Anatomy and Physiology II	4
BIO 3100	Life's History	4

BIO 3500	Genetics	4
BIO 4000	Outcomes Assessment	0
BIO 4170	Ecology	4
Select four credits of Biology Electives¹		4

CHM 1110	General Chemistry I	
CHM 1120	General Chemistry II	
MTH 1111	College Algebra	
NSC 4150	Science, Technology, and Society	
PSC 1202	Cosmic Systems	
PSC 2001	Physics I	
PSC 2002	Physics II	

Methods Course(s)

EDU 3373	Secondary Science Methods ²	4
Middle/Secondary Education Courses (http://catalog.css.edu/programs-az/stender-business-leadership-professional-studies/education/middle-secondary-education/#requirementstext)		44-45

Total Credits 82-83

¹ Students must achieve a minimum grade of "C" in biology courses and a minimum grade of "C-" in supporting science courses to complete the requirements for the major.

² Biology education students should also review the Middle/Secondary and K-12 Education Licensure Program requirements (<http://catalog.css.edu/programs-az/stender-business-leadership-professional-studies/education/middle-secondary-education/>) published by the Education Department for required coursework in education.

Degree Requirements

To graduate from The College of St. Scholastica, baccalaureate students must meet the following minimum degree requirements.

Total Credits: 128

Upper Division Credits: 42

Residency Requirement: 32

Minimum GPA: 2.0